

Dec. 6, 1938.

P. GALLETT

2,139,187

BRACE

Filed March 15, 1937

Fig. 1.

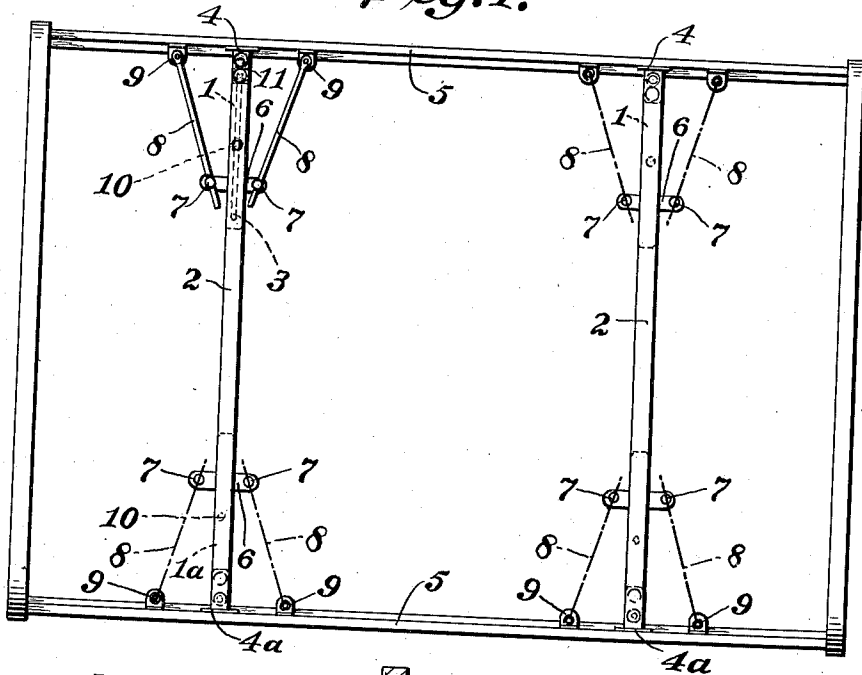


Fig. 2.

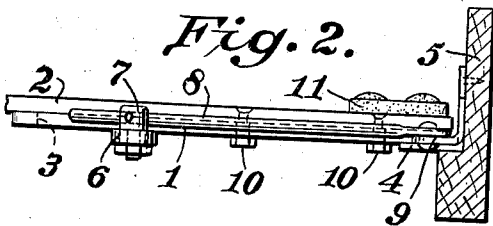


Fig. 3.

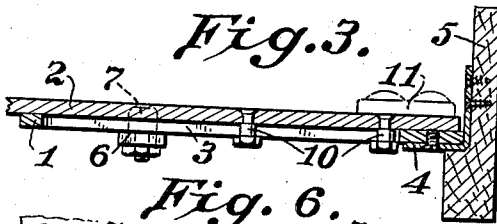


Fig. 4.

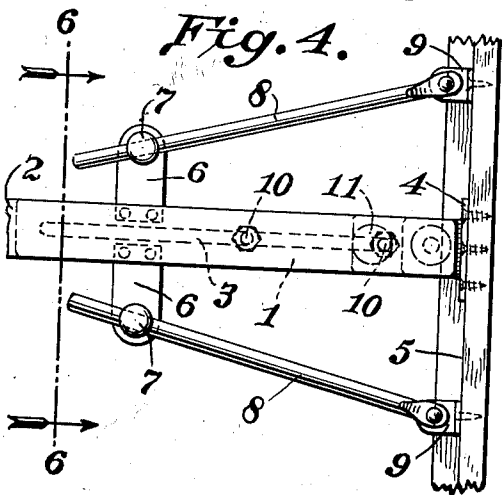


Fig. 6.

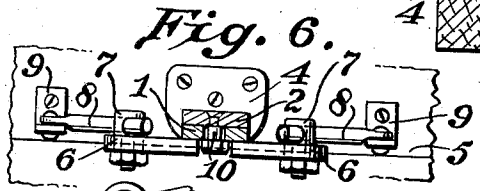
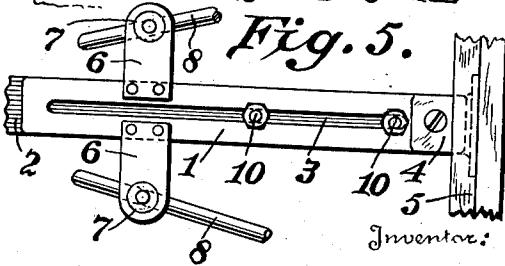


Fig. 5.



Inventor:

Paul Gallett,
Max Well

Attorneys.

334

UNITED STATES PATENT OFFICE

2,139,187

BRACE

Paul Gallett, Chicago, Ill.

Application March 15, 1937, Serial No. 131,091

3 Claims. (Cl. 5—305)

This invention relates to a brace for beds, furniture, and the like, and is designed to reinforce, strengthen, and lengthen the life of articles of furniture. The device is particularly adaptable in connection with wooden beds of the type having side rails across which slats are supported to carry the spring and mattress.

It has been found that in wooden beds of this type, householders are greatly annoyed by the breaking or displacement of the side rails and slats or cross-pieces which connect and reinforce the side rails, this being particularly so when the beds are moved about. Side rails often warp out of shape causing the spring and mattress to sag out of their normal positions, and wooden beds have been known to break when used by persons of more than average weight.

Among the objects of this invention are to eliminate the breaking, warping, and bulging of side rails of wooden beds; to eliminate the necessity for bed slats; to prevent the sagging and sinking of springs, mattresses and inner-spring mattresses; to provide a device which is more sanitary than the present wooden bed construction, in that it eliminates slats which are dust collectors; eliminates squeaking of the bed; reinforces the bed and strengthens it so that it may be lifted or moved without fear of damage. This improvement is constructed of a material such as iron or steel which is less subject to breakage than the slats previously used, which is easily and quickly installed, which does not change the appearance of the bed, and which is economical to manufacture.

While in the particular embodiment described herein, reference is made to the application of this device to a wooden bed, this should not be construed as a limitation, as the device may be used with equal facility and effect upon other articles of furniture, as will be apparent from its construction, and the invention should be construed in the terms of the claims which are appended hereto.

In the particular embodiment shown in the drawing:

Figure 1 is a diagrammatic plan view of the wooden bed showing the device applied thereto;

Figure 2 is a section of a side rail, showing the device, in elevation, applied thereto;

Figure 3 is a section similar to Figure 2 with portions of the device omitted for the sake of clearness;

Figure 4 is a top plan view of Figure 2;

Figure 5 is a bottom plan view of Figure 2, with parts broken away, and

Figure 6 is a section taken along line 6—6 of Figure 4.

As shown in the drawing the brace comprises end bar members 1, 1a and an intermediate bar member 2, the end bar members 1 and 1a, being provided with longitudinal slots 3, which are engaged by bolts 10 projecting from the intermediate bar member 2, in such a manner as to make the end bar members 1 and 1a longitudinally adjustable with respect to the intermediate bar member.

The end bar members 1, 1a are provided with angle brackets 4, 4a at an end thereof, whereby said brace is secured to the side rails 5, 5a, for example, of a wooden bed. These end bar members also carry, intermediate their ends, transversely extending lugs 6. These lugs carry vertically disposed studs 7 which are bored radially to provide a bearing for adjustable side brace members 8 on each side of the longitudinal brace comprising the members 1, 1a and 2. The side braces 8 are locked against longitudinal movement in the stud 7 by tightening the nut carried by this stud, this action causing the brace 8 to become clamped against the face of the lug 6. The hole in the lug 6 through which stud 7 passes is of the same diameter as that of the upper portion of the stud in order that the described clamping action may be effective. These side brace members 8 carry angle brackets 9 at an extremity thereof for attachment to the side rails of a bed, at spaced points on each side of the angle brackets 4, 4a.

It will be noted that the side brace members 8 are disposed in substantially the same plane as the bar members 1, 1a and 2, but at an angle thereto. It will be obvious from this construction that the bar members 1, 1a and 2 are relatively longitudinally adjustable for beds, for example, of various widths, thereby providing a substantial brace for the side rails thereof. The side brace members 8, extending at an angle to the bar members, and being secured to the side rails 5 at points spaced on each side of the brackets 4, 4a, it will be obvious that the bed is strengthened and reinforced against lateral or longitudinal displacement.

In the case of the application of this device to a wooden bed such as described above, it will be seen that only two of these braces are required, one at the head, and one at the foot of the bed. When these braces are applied the use of the conventional wooden cross slats are unnecessary. The bed spring may be supported upon these brace members and rubber cushions, such as shown

at 11, may be used directly beneath the rails of the bed spring to prevent said rails from slipping on the metallic surface of the bars.

Having thus described my invention, I claim:

- 5 1. A brace for beds, furniture and the like, comprising end bar members and an intermediate bar member, said end bar members being adjustable with respect to the intermediate bar member, lugs carried by said end bar members and extending transversely thereof, side brace members adjustable in said lugs and rigidly secured thereto, and angle brackets pivotally mounted on said side braces at the free ends thereof for attachment to a bed or the like.
- 10 2. A brace for beds, furniture and the like, comprising end bar members and an intermediate bar member, said end bar members being adjustably secured to said intermediate bar member for longitudinal movement with respect thereto, lugs rigidly secured to each of said end bar members and extending transversely thereof,
- 15 20

studs rotatable in said lugs, side brace members longitudinally adjustable in said studs and arranged to be rigidly clamped against the faces of said lugs, and angle brackets pivotally mounted on said side braces on the free ends thereof for attachment to a bed or the like. 5

3. A brace for beds, furniture and the like, comprising end bar members and an intermediate bar member, said end bar members being adjustably mounted on said intermediate bar member, angle brackets carried by the end bar members at their opposite free ends, lugs rigidly secured to each of said end bar members, a stud rotatable in each of said lugs, side brace members longitudinally adjustable in said studs and arranged to be rigidly clamped against the faces of said lugs, and angle brackets pivotally mounted on said side braces at the free ends thereof for attachment to a bed or the like. 10 15 20

PAUL GALLETT. 20